

Multiplying Mixed Numbers

$$(14) \quad 7\frac{1}{2} \times 2\frac{3}{4} = \frac{15}{2} \times \frac{11}{4} = \frac{165}{8} = 20\frac{5}{8}$$

$$\begin{array}{r} \times 20\frac{5}{8} \\ 8 \overline{) 165} \\ \underline{76} \\ 05 \\ \underline{40} \\ 5 \end{array}$$

Steps:

1. Turn mixed numbers into improper fractions.
2. Cross cancel
3. Multiply the top and bottom.
4. Turn back into a mixed number.
5. Simplify

$$(6) \quad 2\frac{1}{3} \times 4\frac{1}{5} = \frac{7}{3} \times \frac{21}{5} = \frac{49}{5} = 9\frac{4}{5}$$

$$\frac{1}{2} \times 2\frac{1}{3} = \frac{1}{2} \times \frac{7}{3} = \frac{7}{6} = 1\frac{1}{6}$$